| \$                   | MMM   MMM   MMM   MMM   MMM   MMM   MMMMMM  | GGGGGGGGGGG<br>GGGGGGGGGGGG<br>GGG<br>GGG<br>GGG<br>G   | RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR                 |  |  |
|--|---|---|--|--|--|
| \$\$\$\$\$\$\$\$\$\$\$<br>\$\$\$\$\$\$\$\$\$\$<br>\$\$\$\$\$\$\$\$\$\$\$<br>\$\$\$\$\$         | MMM   MMM | GGG<br>GGG<br>GGG<br>GGG<br>GGG<br>GGG<br>GGGGGGGG      | RRR RRR<br>RRR<br>RRRRRRRRRRR<br>RRRRRRRRRRR<br>RRRRRR | 111<br>111<br>111<br>111<br>111<br>111 |  |
| \$\$\$<br>\$\$\$<br>\$\$\$<br>\$\$\$<br>\$\$\$<br>\$\$\$<br>\$\$\$<br>\$\$\$<br>\$\$\$<br>\$\$ | MMM   | GGG GGGGGGG<br>GGG GGG<br>GGG GGG<br>GGGGGGGG<br>GGGGGG | RRR            |  |  |

Val 001 001 001 001 001 7FF 7FF 7FF 7FF 7FF 7FF 7FF

| \$\$\$\$\$\$\$\$\$<br>\$\$\$<br>\$\$\$<br>\$\$\$<br>\$\$\$<br>\$\$\$<br>\$\$\$<br>\$\$\$ | MM MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM | GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG | KK | CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC |
|--|--|--|--|--|
| \$             | DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |  |  |  |

\*\*FILE\*\*ID\*\*SMGKCB

MODULE KCBDEF IDENT "1-002": { Screen Management Keyboard Control Block (KCB) { File: SMGKCB.SDL, Edit: PLL1002 COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. ALL RIGHTS RESERVED. THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY TRANSFERRED. THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT CORPORATION. DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. Author: Steven B. Lionel, 10-February-1983 1-001 - Original. SBL 10-feb-1983 1-002 - Added device name string and length. PLL 21-Jun-1983 [ The Screen Management Keyboard Control Block (KCB) contains state information about a particular virtual keyboard. AGGREGATE KCB\_STRUCT STRUCTURE PREFIX KCB\_ MARKER KCB\_ ORIGIN KCB; EFN LONGWORD; { Event flag number union1 UNION; { I/O channel for \$QIO { Internal file identifier for RMS CHANNEL WORD; IFI WORD: END union1; AST\_CHANNEL WORD; KQB\_ADDRESS; { I/O channel for AST declarations Address of corresponding KQB CHECK LONGWORD;
OLD\_DEVDEPEND1 LONGWORD;
OLD\_DEVDEPEND2 LONGWORD;
DEVCHAR LONGWORD;
TERMCHAR STRUCTURE;
DEVCLASS BYTE;
DEVTYPE BYTE;
PAGE\_WIDTH WORD;
DEVDEPEND1 LONGWORD;
DEVDEPEND2 LONGWORD; Consistency check value Previous DEVDEPEND1 Previous DEVDEPEND2 Device characteristics Terminal characteristics Device class Device type Page width Device dependent informantion ( More device dependent information DEVDEPEND2 LONGWORD:

```
END TERMCHAR:
                                                                          Id of associated pasteboard
Local state flags
Read using RMS
^Z was typed at end of last read
Term. characteristics changed
PASTEBOARD ID LONGWORD;
FLAGS STRUCTURE;
        RMS BITFIELD;
CTRLZ BITFIELD;
CHARS CHANGED BITFIELD;
KPDSEQ DECCRT BITFIELD;
dummy3 BITFIELD LENGTH 28 FILL;
END FLAGS;
                                                                        { Keypad change seq is DECCRT compat.
 CONSTANT ORIGIN_OFFSET EQUALS ::
                                                                       { Offset of zero-origin
KCB UNION;
                                                                        { Zero-origin of data structure
        RAB STRUCTURE:
                                                                        ( RMS Record Access Block (dummy decl)
                dummy4 BYTE FILL;
END RAB;
        QIO1 STRUCTURE:
                                                                           $QIOW argument list to read a line
                        ARGCNT LONGWORD; { Argument count CONSTANT QIO1_ARGCNT EQUALS 12; { 12 arguments to $QIOW_EFN LONGWORD; { Event flag number CHAN LONGWORD; { I/O channel
                QIO1_ARGENT LONGWORD;
               CONSTANT QIO1 ARGO
QIO1 EFN LONGWORD;
QIO1 CHAN LONGWORD;
QIO1 FUNC LONGWORD;
QIO1 IOSB ADDRESS;
QIO1 ASTADR ADDRESS;
QIO1 ASTADR ADDRESS;
QIO1 P1 LONGWORD;
QIO1 P2 LONGWORD;
QIO1 P3 LONGWORD;
QIO1 P4 LCNGWORD;
QIO1 P5 LONGWORD;
QIO1 P6 LONGWORD;
END QIO1;
KCB;
                                                                            Function code
                                                                            Address of IOSB
                                                                            AST routine address
                                                                            AST routine parameter
                                                                            Parameter P1
                                                                            Parameter P2
                                                                            Parameter P3
                                                                            Parameter P4
                                                                            Parameter P5
                                                                           Parameter P6
        END KCB:
                                                                           End of RAB-QIO1 union
QIO2 STRUCTURE;
QIO2_ARGENT LONGWORD;
CONSTANT QIO2_ARGENT EQUALS
                                                                            $QIOW argument list to read a character
                                                                       { Argument count 12; { 12 arguments to $QIOW { Event flag number { I/O channel
       CONSTANT Q102 ARGO
Q102 EFN LONGWORD;
Q102 CHAN LONGWORD;
Q102 FUNC LONGWORD;
Q102 IOSB ADDRESS;
Q102 ASTADR ADDRESS;
Q102 ASTADR ADDRESS;
Q102 P1 LONGWORD;
Q102 P1 LONGWORD;
Q102 P2 LONGWORD;
Q102 P4 LONGWORD;
Q102 P4 LONGWORD;
Q102 P5 LONGWORD;
Q102 P6 LONGWORD;
END Q102;
B STRUCTURE;
                                                                           Function code
Address of IOSB
                                                                            AST routine address
                                                                            AST routine parameter
                                                                            Parameter P1
                                                                           Parameter P2
Parameter P3
                                                                           Parameter P4
                                                                           Parameter P5
                                                                        { Parameter P6
 IOSB STRUCTURE;
IOSB_STATUS WORD;
IOSB_COUNT WORD UNSIGNED;
IOSB_TERMINATOR BYTE UNSIGNED;
                                                                        { I/O status block
                                                                           Status
                                                                           Count
                                                                           Terminator
         reserved BYTE FILL:
                                                                           reserved
         IOSB_TERMLEN BYTE UNSIGNED;
IOSB_POS BYTE UNSIGNED;
                                                                           Length of terminator
                                                                        Position of cursor
```

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END IOSB;
DEVNAM\_LENGTH WORD;
DEVNAM\_STRING CHARACTER LENGTH 64; { Resultant device name string END KCB\_STRUCT; END\_MODULE KCBDEF;}

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